

# 2016-2017 Faculty Competition

## Research Infrastructure



**Announcement for faculty at:**

**University of Nevada, Las Vegas; University of Nevada, Reno;  
Nevada State College; College of Southern Nevada; Great Basin College;  
Truckee Meadows Community College; Western Nevada College;  
Desert Research Institute; Sierra Nevada College**

**Applications Due:**

**October 17, 2016; 5:00 pm PDT**



National Aeronautics and Space Administration  
(NASA) Space Grant College and Fellowship  
Training Program Cooperative Agreement #:  
NNX15AI02H



# NV SPACE GRANT CONSORTIUM RESEARCH INFRASTRUCTURE SOLICITATION

## I. INTRODUCTION:

The Nevada Space Grant Consortium (NVSGC) seeks to develop a diverse and capable Nevada STEM workforce by providing funds for NASA-related faculty research projects. Selected faculty research projects will provide authentic “hands-on” research opportunities for students in topic areas such as: unmanned aerial systems, aeronautics (including high altitude balloon projects), planetary geology, astrochemistry, astrophysics, astrobiology, biodiversity/biology, new satellite data systems, remote sensing, sustainability, agricultural science, climate change, hydrological impacts under a changing climate, and STEM education. These funds should not augment existing funded research projects.

## II. PROPOSAL INFORMATION AND INSTRUCTIONS

### A. Eligibility:

- Faculty within any Nevada System of Higher Education Institution or Sierra Nevada College, particularly junior faculty, women, and members of other underrepresented populations are encouraged to apply.
- Participants receiving direct funding **must be US citizens**, including students and PIs even if no salary is included for PI in the proposal. **Note: Those with permanent status, a green card, etc. are not eligible to receive funding through this NVSGC grant.**

### B. Award: Funding Information

Depending on available funds, it is anticipated that 1-3 projects will be awarded. Project total should not exceed \$30,000 (\$15K federal/\$15K state match). State funds will be provided by State Special Projects match. Each submitted proposal must include signed budgets from collaborating campuses with the amount of the collaborators total budget listed under 1.A. Subcontracts on the NSHE budget form.

### C. Deadline:

The deadline for application submission is 5:00 pm PDT, on Monday, October 17, 2016. Only applications for which all materials have been received will be reviewed. Incomplete applications will NOT be reviewed.

### D. Award Obligations

Award recipients are required to prepare an interim report for the spring 2017 Space Grant annual report and a final project report following NV Space Grant guidelines. Reporting will be performed through online forms. You will be required to provide demographic data about participants and to prepare a form with project highlights for submission to the National Space Grant Office. The final report includes a summary of project results and outcomes such as: grant proposals submitted; grant proposals funded; papers submitted and/or published in refereed journals; presentations or abstracts at professional meetings, and collaborations with NASA centers and institutions across the state. Award recipients are also expected to attend and make a presentation at the annual NV NASA EPSCoR/Space Grant Meeting anticipated to occur in the fall of 2017. Travel for this meeting should be included in your budget.

**Your reported information is used for required reporting to NASA Headquarters.** Failure to report will lead to ineligibility for NCE’s and subsequent awards.

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### E. Proposal Guidelines

Proposals must be typed, single-spaced, with standard one-inch margins and use a Times New Roman 12 pt. font with numbered pages. The proposals should be written such that researchers from most scientific disciplines would be able to understand the proposal goals, importance of the research and how the anticipated outcomes will benefit NASA, NV and NSHE. Although many will, all review panel members may not have specific expertise within the topic area of each pre-proposal submitted.

1. Cover Page (form provided as “paperclip” attachment to this solicitation)
  - Signature of Applicant
  - Signature of Office of Sponsored Projects/Programs
2. Project Description (limited to 5 pages)

Provide a concise description of the proposed research, including the following:

  - Abstract: (500 words or less detailing the overall proposed activity);
  - Methods (Tasks);
  - List of collaborators and expertise they will contribute (including any NASA scientists);  
\*Any NASA collaborators must provide letters of support and specifically state the contribution they will make. (Note: if applicable to the proposal, letters of support/collaboration should be included. Letters must be recent and dated within 45 days prior to the solicitation due date);
  - List of student involvement; particularly from under-represented groups;
  - Description of how the effort will contribute to the [NASA Strategic Plan 2014](#), and the [NSHE Science and Technology Plan 2015](#) and/or the [State of Nevada’s Economic Development Plan](#).

3. Budget and Budget Justification

Faculty, students and NSHE personnel may request funds for salary, travel, materials and supplies and other resources necessary to build research infrastructure. However, where appropriate, we encourage you to use NV NASA EPSCoR RID workshop/travel funds currently available for travel and workshops at: <http://www.nvspacegrant.org/funding-opportunities/>

*All reasonable costs are allowable **with the following exceptions:***

- a. No foreign travel;
- b. No equipment may be purchased; this also includes desktop equipment;
- c. Funds may not be used for construction or remodeling of facilities; and
- d. Only direct support of US-citizens is allowed.

The budget must be completed using the NSHE excel form provided. Dollar amounts proposed with no explanation are not allowed. Direct labor costs should be subdivided and listed by individual and/or titles or disciplines with hours, hourly rates, and total amounts of each. Proposed travel should include the number of trips, destination, duration, etc. The budget must include applicable F&A (indirect costs) for your institution. All budgets must be signed by the applicant institution’s Business Office/Office of Sponsored Projects. *If selected for funding, final budgets will be reviewed and if necessary the PI may be asked to consider a funding reduction based on the availability of funds.*

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4. Results of Prior Nevada NASA Space Grant Consortium or Nevada NASA EPSCoR support (limited to one page): Any faculty on the project who has received NVSGC or Nevada NASA EPSCoR award(s) in the past five years must provide the following:
  - a. The amount and period of support.
  - b. Summary of the results, including tangible outcomes, which could include, but are not limited to; resulting publications, proposals, new collaborations or partnerships, thesis/dissertations, student successes, and engagement of underrepresented groups.
5. References/Citations
6. Biographical Sketch or Curriculum Vitae  
Limited to two pages per person, including the PI, Co-PI(s) and student(s) involved who have a major role in the project.

### F. Submission Guidelines:

Proposals will be accepted until 5:00 pm (PDT) on Monday, October 17, 2016. Proposals must be submitted by the institution Sponsored Programs Office or appropriate Authorized Official. Submit to [nshespo@nshe.nevada.edu](mailto:nshespo@nshe.nevada.edu) as one PDF document.

The email subject line and the PDF application document should be specific to each applicant and read: **PI Last Name\_First Name\_NVSGC\_RI**. Submissions that are incomplete will not be reviewed and no late submissions will be accepted.

### G. Evaluation and Award Criteria:

The screening and selection process will include statewide representatives from NSHE and /or Industry and will focus on the following areas:

- Clear benefits to enhancement of NV's STEM research infrastructure
- Quality of the research proposal as evidenced by:
  - a. Well defined research objectives
  - b. Clearly defined methods that adequately address the objectives
  - c. Demonstrated ability of faculty to conduct the anticipated work
- Alignment of the proposal with NASA's national missions and goals and the NSHE Science and Technology Plan 2015 and/or the State of Nevada's Economic Development Plan.
- Student participation plan is appropriate and includes list of students or provides a plan to recruit students, particularly student from under-represented groups.
- Budget is appropriate for scope of work.
- Anticipated products and/or outcomes are defined.

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**Contact Information:**

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**Diversity and inclusion are integral to the mission success of NASA.** *To stay competitive in today's global marketplace, we must have "an organizational culture and work environment where the best and brightest minds – employees with varying perspectives, education levels, skills, life experiences, and backgrounds – work together to achieve excellence and realize individual and organizational potential." "NASA must reach out to educate a more diverse American public on the need for robust space and aeronautics programs and their value in advancing the U.S. scientific, security, and economic interests." "To do so, NASA will increase outreach efforts to encourage and motivate people, especially young people, in diverse and underserved communities."*

**Proposals to NV Space Grant Consortium competitions should include a goal to engage faculty and students that reflect the demographic diversity in Nevada.**